



**ENVIRONMENTAL SERVICES UTILITY
BOARD MEETING
NOVEMBER 15TH, 2021
SUMMARY OF MINUTES**

The meeting for Kankakee Environmental Services Utility was held on Monday, November 18th, 2021 at 6:00 P.M. in the Public Safety Building.

ESU Members Present

Ald Mike Prude
Ald Mike O'Brien
Ald Larry Osenga
Ald Danita Swanson
Ald Kelly Johnson
Ald Reginald Jones
Clerk Stacy Gall

Interim Superintendent

Dave Tyson, PE, IPLS

Additional Alderman Present

Ald Lance Marczak
Ald Dave Crawford

ESU Staff Present

Clara Hall, Admin/Tech Ops Mgr
Zach Newton, GIS/Ops Mgr
Dennis Doyle, DPW Asst. Supt.
James Lopez, DPW Ops Mgr

Others Present

Elizabeth Kubal, Comptroller
Maureen Kambic, Asst Compt.

VICE CHAIR SWANSON:

The Environmental Services Utility Board meeting is called to order for Monday, October 18th, 2021. Mayor Curtis could not be here tonight. I am Vice Chair and I will run the meeting at this time. Are there any public comments?

Hearing none we will move on to Section two, which is Roll Call.

ROLL CALL

CLARA HALL:

Ald Lewis - Absent	Ald Swanson – Present
Ald Prude - Present	Ald Johnson - Present
Ald O’Brien - Present	Ald Jones - Present
Ald Osenga –	Clerk Gall - Present
PRESENT: 6	ABSENT: 1

APPROVAL OF MINUTES

VICE CHAIR SWANSON:

We have a quorum. Alderman Osenga will try to make it he has another engagement. Also, Elizabeth Kubal will be running late this evening. We are going to do the minutes and then move the presentation up. Motion to approve the minutes from Monday, September 20th, 2021. Do I have a motion to approve?

ALD PRUDE:

I will make that motion to approve the minutes.

ALD JOHNSON:

Second.

VICE CHAIR SWANSON:

Motioned by Alderman Prude and Seconded by Alderwoman Johnson. Any questions, comments, changes. Hearing none, Roll Call.

CLARA HALL:

Ald Lewis - Absent	Ald Swanson – Aye
Ald Prude - Aye	Ald Johnson – Aye
Ald O’Brien - Aye	Ald Jones – Aye
Ald Osenga -	Clerk Gall- Aye
AYES: 6	NAYS: 0

VICE CHAIR SWANSON:

Thank you. Now we will have the presentation by Joe Sullivan.

PRESENTATION

JOE SULLIVAN:

Good Evening thanks for having me. I am from Robinson Engineering and this presentation is on Sanitary Sewer Investigation and Rehabilitation. We have been specialist in this for decades. Outline and the three types of sewer...GIS Manager put a video together sewer/manholes with real time updates. Inflow is the. The water that flows

directly coming in at a much quicker pace, it's coming from the downspouts and gutters and cross connections. This graphic here shows what happens when it starts raining, the sewers fill up a storm sewer fills up, and you see that the sanitary sewer fills up quickly right behind it, causing a sewer backup so that's what I&I causes. The goals of an I&I reduction program are improved quality of life, basically reducing basement backups into the homes, if anyone's ever lived through a sewer backup it's, it's terrible on reducing operating costs. Cost that lift station so pumping sewage flow equals spending money and energy. This is actually from the stone street lift station in Kankakee. These are huge screw pumps up so you can imagine the energy it takes to pump these, and with extra flow in the system I&I. You might have all three of those pumps running and that expenditure is triple than what it would be in normal flow. There's also a billings, with the treatment plant, KARMA, and then expansions possible expansions, as well as emergency sewer repairs. It always cost more money to fix the sewer in an emergency situation than just for plant maintenance. Again, going back to the quality of life and improving resident's quality of life, basement backups. So, I did notice on Evergreen and Merchant when I went out with the utility department, that there was a combined sewer manhole. The pipes coming in at the top worse from storm sewers and at the bottom from sanitary sewer. This was also being separated at the time, so our construction was taking those old pipes out and rerouting the sewers, you can see in the trench. Are the results of a poor I&I reduction program. Basically, the basement backups, we talked about, and then sewer overflows so if you ever see a sewer overflow that's a violation, and shows that there's a I&I problem. Next, I'll get into some typical investigations. So the first is flow monitoring. We can basically measure depth from the sewer and velocity and calculate flow. This is a great starting point for an I&I reduction program because it helps to pinpoint the areas that have the most, most I&I based on the rain. This next slide will show flow monitoring basis shows basically each, each one of these colored basins has a flow meter associated with it at the outlet point. For the Village of Bradley a media flow monitoring analysis and basically, we were able to look at the sharp peaks and flow from rainfall as well as the overall volumes of flow and we came up with these, these graphics that basically are like a road map to show which basins have the worst or most

severe I&I. Sanitary Sewer Cleaning and televising is exactly as it sounds. The following picture shows a hydro jet flusher cleaning up to sewer the top left shows a vacuum truck to vacuum it to bring it out. This is all done in advance of cleaning or televising operations. So you can see, this next slide here actually shows. This actually shows some sewer televising videos so you can see there's cracks on the bottom on the top. This service lateral connection is all broken and rough and there's actually water infiltrating into the sewer at this point as well. But this is how we assess the inside of the pipes. Some typical effects; fractured pipe, collapse pipe, directional drilling damage, from other utilities that dashboard through the sewer. Smoke testing is a very highly visible sewer investigation, finds the big leaks in the system pretty quickly, where Smoke gets out water can get in. So basically you can see as a typical smoke testing setup there. We do notify in advance with door tags and mailers to all residents will be affected by smoke testing. Some typical smoke test defects include: defective cleanouts, processing connected storm drains, defective laterals, and then downspouts tied into the sanitary sewer. We have developed this really slick smoke testing dashboard so that the city and utility department could see real time while we're collecting that data in the photos, as we're, as we're finding defects and see the progress as the work unfolds. Manhole inspections, they provide an inventory of your assets, so we would look for new manholes buried missing manholes and then provide what types of manuals of those are also put those in GIS and look for any structural defects or any I&I coming into the manholes. Typical manual inspection defects would include: a bench failure of broken frame or lid manual frame offset or missing bottom mud bottom, we actually saw one of these over at Cedar Street near the city's building over at Hobbie. And then we have a manhole inspection dashboard which shows all the manholes projects and inspection, as well as when those manholes were repaired. House to house surveys, Those are done to look for additional I&I, when you haven't gotten enough out of the system you can go door to door and look at internal sump pumps connected to the sanitary sewer. Now on to some sewer rehabilitation projects. So sewer lining is when you actually put a pipe inside an old pipe you rehabilitated with a pipe inside the pipe, it actually can be cured and hardened with either steam hot water or UV cure so basically you redo the pipe giving yourself another 50 to

100 years designed lifetime sewer. This slide here shows an example of a before line sewer and an after line sewer so you can see deterioration on the left. There's hydrogen sulfide corrosion on the right we have a brand new sewer within the sewer, and it's completely structural. Pipe repairs are done wherever the sewers in such bad shape is collapsed and you can't get a liner through it. So sometimes it's necessary to excavate, here's a couple examples where they're excavating and putting in new pipe. Manhole repairs/rehabilitation, you could see a complete manual view of replace on the top left, or new frames and lens in the bottom and cone section or at least invasive internal chimney seal on the bottom right. Just like the mains can be line service laterals can be lined, this called lateral lining. It also can be called T lightning when a portion of the main the ensemble of land and service lateral. I was lucky enough to see last week the first ever UV cure T liners go in and one of our communities. That's a picture on the right of the main and the service later on was a fiberglass T liner, they do require a clean installation sometimes but they've invented a process where they can use a vacuum tube, and it's very less, very less excavation required for that. This graphic just shows the before and after flows for a client of ours where they did a complete lateral lining program. And you can see the orange is the before the blue is the after there was a 75% reduction in flow of extraneous flow getting into the system. This video is an old brick sewer 42 inch sewer, the reason I show it is because I know the city of Kankakee has some old stories like this, especially up near the Meadowview Plaza exceed a 48 inch sewer up there like this, but this was another community, and they came to this which was a big collapse in their sewer system. The reason I show it because it actually happened to be under a major roadway. This is 127th Street so as a major roadway. Robinson worked with a contractor, we came up with a plan to fix the sewer put in wood staves and expansion bands in the sewer. And then basically, here's a graphic showing the size of the void was 17 feet by 19 feet under the roadway. But what we ended up doing was forming and pouring six feet of concrete above the pipe. And then after that, another 12 feet of control books, reading material so that they ever had to dig again they could, and the sewer the new sewer wall was the concrete mass. So, I know together that we can finally remove I&I and improve Kankakee's underground infrastructure adding 50 to 100 years of design life, reduce operating

costs, reduce basement backups and sewer overflows and improve the quality of life for Kankakee citizens. And thank you for having me. And that is there any questions?

DAVE TYSON:

Can you say a little bit to that? I asked him to come down and give this presentation, because as I said, a couple meetings ago. I'm trying to turn the ESU around to be proactive instead of reactive. And the only way we can get ahead of the game is to find out where we have sewer problems where we have failures, where we need to put some money into it right now. We can't have a chance with ARPA money to do this right now so that's part of what we're presenting I've gone over with Elizabeth and we haven't finalized anything but that's what we want to do is start looking at being able to find programs so we know what this is. Not only will this help Kankakee, as far as, what our maintenance and how far behind we are now, it's going to save us money down at KRMA, because the less amount of clean water we're saying we're paying the same amount to clean rainwater is you are very good sewer water, so the more we can station down here, the more money we can save with the city and it helps everybody because it increases our KRMA too, and maybe we don't have to have such a big expansion. So this is something that's not, you know, nice and sexy like a brand new building or something like that but infrastructure underground is every bit as important as everything else and that's, that's why guys like you don't want around experts in what they do. I know they've been working with the Village of Bradley, you can check they have cut the Village of Bradley's I&I down drastically, without making projects just by finding key positions and points where they have to make corrections so this is just something I feel we are way behind on. Now, I want to make this presentation so I will be coming back with a proposal for you. I'm happy to answer any questions you have.

ALD O'BRIEN:

And he talked about basically backups and things we have areas in mind and present. Let's see would be the chronic areas where there's all backups and there's a heavy rain this would be something that could be targeted to those areas to help identify potential problems and come up with solutions is that right?

JOE SULLIVAN: Absolutely, yeah this is finding those I&I sources and eliminating them so that they're no longer problems in your community.

ALD O'BRIEN: And then Dave mentioned this, he said we'll have a proposal of some sort to consider.

DAVE TYSON: Yes, absolutely. Before I bring a proposal I want to work out the budget items and numbers but we're going to have. Once we know or have an idea what we feel we can spend on this proposal. It'll probably be to pick up a proposal, not only to do the initial study, but then to also have somebody allocated into major repairs.

ALD CRAWFORD: You did say we can use some of the ARPA money.

DAVE TYSON: Yes, every bit of this type of work can be done with ARPA funds.

ALD O'BRIEN: This is somewhat off topic, but I have an issue with drains clogging from grass clippings or whatever, everything, effectively just simply causes a lot of standing water in the streets, a lot of challenges.

DAVE TYSON: That is a problem, I mean certain grates that you have are more susceptible to clogging and others. If people are throwing grass clippings or leaves out into the street you can get heavy rains, it's going to float with water closes in a block. No, there's no way that the DPW can be throughout the whole city. I know in some of the neighborhoods I've lived in and we kind of had our own little neighborhood watching; running off the inlets, the rain, and it really has to be done. We've got a lot in the city. We've got a lot of beautiful trees have a lot of leaves. These inlets are going to clog up. Once they come down and we can rake them and pick them off. That's why they don't really want them on the street.

ALD MARCZAK: Besides using the ARPA money we just allocated money for a grant writer. Are you aware of any federal grants that we can go after? This is a lot of amount of money because this isn't a little project, this could be millions of dollars.

JOE SULLIVAN: Well, I know a lot of communities take advantage of the State Revolving Fund, the Illinois IP and low interest loans for this type of work on so I know that's pretty typical on an

annual basis. And then, a lot of people are using our money as well.

DAVE TYSON:

There are sanitary money that is going to be coming in available that has hasn't been released that are in the federal government right now. From the looks of it from what we've seen, looking through the KARMA part of it. We're probably two years out three years out. But yes, I mean this is not a one-year project, this is an ongoing project that we'll be doing to try and get ahead of things like I said proactive as far as getting prepared so we'd always be looking for promoting support.

APPROVAL OF BILLS

CHAIRWOMAN SWANSON:

Okay, anybody else have any questions for David or Joe? Okay, Thank you. Go ahead and move on with the agenda with the approval of bills and the total amount of \$809,344.92. Do I have a motion?

ALD OBRIEN:

So move.

ALD JONES:

Second.

CHAIRWOMAN SWANSON:

Motioned by Alderman O'Brien and seconded by Alderman Jones to approve the bills. Are there any questions? Roll Call

CLARA HALL:

Ald Lewis - Absent	Ald Swanson - Aye
Ald Prude - Aye	Ald Johnson - Aye
Ald O'Brien - Aye	Ald Jones - Aye
Ald Osenga -	Clerk Gall - Aye
AYES: 6	NAYS: 0

VICE CHAIR SWANSON:

Bill are approved. Our next item on our agenda, are the monthly activity reports, Zachary, you wanted to go ahead and start

ZACH NEWTON:

We got about 30,000 miles of smart sanitary lines clean. The hydro did not run much less than 120 goes down, because you know we're still gotta decide what we really want to do, we stopped unit one while we make those decisions. Trying to race against the clock with the season to finish in house repairs that we can do. And we got 13 of those done. It's looking pretty good. We might still have a

few more outstanding. Lastly, I just want to give an update on the LaBeau building making slow but steady progress with that. The Code area is being staged, we're trying to work through finalizing some last obstacles that we can get a more definitive move in and date. We are making progress. I still can't give a set date yet when it is with a movement, but we are moving closer to that goal. And as soon as we can we will get everything moved.

VICE CHAIR SWANSON:

Does anybody have any questions for Zach? Thank you. Dennis?

DENNIS DOYLE:

It's all in your report. Two items I'd like to touch on. Tree work. We were planting trees last week we'll probably do more planting this week, and then we'll be we'll be pretty covered. Salt, we did get in contact with some people at the state. We have been picked up so we will be able to buy salt, we don't know how much it will cost for another couple of days yet. So, we will get that information out to you.

VICE CHAIR SWANSON:

Any questions for Dennis? Alderman O'Brien?

ALD O'BRIEN:

Tree planting, are these the trees that were planted in terrace? Do you have any information about the details of that program so we could promote that service?

DENNIS DOYLE:

I'm pretty sure there is something on the city's website but I will definitely make sure.

VICE CHAIR SWANSON:

Any other questions for Dennis? Okay, thank you. Clara, do you have anything you want to talk about.

CLARA HALL:

I don't have much tonight. Technical services has actually done very well with staying on budget, and we have had about five pole accidents, this year, half of them. Two of them do have insurance, so we are going after those to collect. The other one, I believe it's just a hit and run. We tried to find a police report but where there was nothing recorded. We had one accident that we have a report for but no insurance so we just have to eat the cost of that. When these types of things happen, we do try to rebuild poles if it's possible, depending on where the damage is of course. We have a couple of poles on order with the issues of shipping. Some of our items are taking a little longer

than usual to get here. Also, earlier this summer I mentioned to you that we had the sirens checked. There was one that we could not get to. I wanted to say, special thanks to Dennis Doyle and DPW. They did clear the one bad area by I57 and the technician was able to service the siren. Everything is going well. As far as the technical services building at LeBeaus we are 90% in our building. We're actually moving my office furniture over tomorrow so with that being said, that's all I have.

VICE CHAIR SWANSON:

Any questions for Clara. Thank you, Dave, do you want to, say anything for Alan or yourself?

DAVE TYSON:

Actually, everything's going pretty smoothly. The Lab, I really want to let everybody know here we do have an openings at the Lab actually two positions we've interviewed for both of them. We're in the process right now and making offers. So things are moving along moving very smoothly right there and Alan is taking care of things very well.

ELIZABETH KUBAL:

Has the truck been delivered?

DAVE TYSON:

To explain the truck is probably 20 weeks out yet it's not, we kind of fell in a window where they get rid of some trucks. We were originally buying from Hove and they were no longer able to get it, of course reports that they were able to get it directly to get it less than what we was went with at the time, they are trying to expedite it as best they can, But we're looking at probably 20 weeks before we get it. The other van, we are going to reutilize it back into sort of reserved sewer service as part of ESU that needs for maintenance. So we will use.

VICE CHAIR SWANSON:

I just want to note for the minutes that Alderman Osenga is present. Thank you. And Elizabeth, do you want to go over the financials?

ELIZABETH KUBAL:

Yes, thank you. I think no news is good news is generally a philosophy that I use and I think that this month is no different in my life. Yep. Okay, great. I just I said earlier, I have no news is good news I want to kind of reiterate what Clara said this month percentage wise and across all the departments in general, percentage of our holding very, very well at the five months point as you can see at the top of the page you should be at 41.67%, and every single

department is beneath that, it will be right on target of course we are debt service, as we service that normally throughout the year. I have actually nothing to report some of these numbers will start to go up though, as you know we are looking toward tonight in Executive Session for getting some of these contracts resolved. That of course will result in some retroactive pay. So that will make the salaries of languages go up a wee bit. But in general, right now we're trending very very well. A couple things on the back page that I wanted to highlight on page three, versus total utility expense. Overall, the entire utility right now we're only at 35.2%, which is excellent and revenue the year to date is that 37.7% in dollars that translates to about \$500,000 We were running ahead of revenues and expenditures at this point in time which I feel very good about underneath the all the accounts at the bottom, the capital account again says N/A, I did a report for those of you on budget. If you were there that night you saw a capital report that my team put together for your analysis project so we can look at different projects we've been completing, we're in the midst of doing that for ESU as well. We do not have it completed as of yet, but if we get it done for the next week or so during the pace that I will go ahead and get it out to this group. I'll probably just send it to the council, just so that you can have that, and then that'll make those kinds of numbers make sense to you have to do a transfer from the ESU operating to make the practical whole again, that we do that from time to time and to make that final transfer. So that's where we're at with that situation. So that so look for that summary to come, I did want to make notes that the you've heard Joe the gentleman present about the IEPA loans that are available, as you recall that, those, those funds that loan was exactly how we pay for certain streets, and those payments are due semi-annually, and our payment that was due on October the 14th it was made last week on time, and it was about 120,000.00. It was the amount that was paid, and that was accomplished so I just want to report to the, to the committee about that. Any questions?

VICE CHAIR SWANSON:

No questions. Thank you Elizabeth. Alright, we're gonna move on. We don't have anything under old business. We do have unfinished business- hydro plant number one.

DAVE TYSON:

There's really not a whole lot to report on that we don't have the unit back in Michigan we're still waiting for the

final price before we asked to get it back to be perfectly honest we're still trying to do a total analysis of number one what it's going to cost to repair the hydro plant. Then we want to do a cost analysis to find out, is it worth repairing. We're buying energy right now at 4.96 cents a kilowatt, when we're making a lot of money off this hydro plant here we're charging firm 12 cents a kilowatt. Those days are probably gone so we have a more efficient way to be able to make money on it. We're looking at Com Ed right now to see if it let us know directly in the comment grid that we don't have a maintenance of the transmission line that goes from KARMA from hydro plant so hopefully within the next 30 to 60 days we're going to have a full-fledged report that we can present to you and give you a what are likely to be in the future that I plan to make sure we're gonna spend money on we want to make sure it's gonna be worth it.

VICE CHAIR SWANSON:

Alderman Marczak?

ALD MARCZAK:

Are we prepared the first water pump yet?

DAVE TYSON:

No we haven't. But we have set down the third turbine so I'm really uncomfortable with that (*inaudible*) water into it, we're, we're still waiting for Glade and PSI to give us numbers back to try to bring it in from one of the front bays instead of from that, from what brought in from or else we had to figure out how to replace something to know where we can pull the pump up and down right now. So, it's not costing us money now that we are looking at that because if we do turn back on, we do want to save a lot of noise by between \$1000 - \$2,000 a month for water (*inaudible*) basically is electrical problems.

VICE CHAIR SWANSON:

Anybody else have any questions for Dave? Okay. Thank you. Moving on to new business both are for DPW So Dennis, do you want to start with A DPW Surplus.

DENNIS DOYLE:

You have a list of 13 things there. As we are moving out of the Space Center we just find more stuff we don't have a need for anymore. A lot of it's not very good, because we don't have city auctions anymore. So this stuff needs to be declared surplus. I believe there's some other vehicles and things that are coming from Code on down the line here and to see if we can get an auctioneer or somebody to do this.

VICE CHAIR SWANSON: Okay so we probably need a motion to declare these items surplus.

ALD O'BRIEN: So move.

ALD OSENGA: Second.

VICE CHAIR SWANSON: Motioned by Alderman O'Brien and seconded by Alderman Osenga. Roll Call.

CLARA HALL:	Ald Lewis - Absent	Ald Swanson - Aye
	Ald Prude - Aye	Ald Johnson - Aye
	Ald O'Brien - Aye	Ald Jones - Aye
	Ald Osenga - Aye	Clerk Gall - Aye
	AYES: 7	NAYS: 0

VICE CHAIR SWANSON: And the next item under new business. DPW Appointment.

DENNIS DOYLE: We're proud to announce our new Operations Manager is James Lopez. James has been with us for close to 15 years with a wide variety of experience. Most of the things that we do down here. He's hit the ground running, he started fast.

VICE CHAIR SWANSON: James, do you have anything you'd like to say?

JAMES LOPEZ: I just want to thank Dennis for giving me this opportunity to be in charge. I'm looking forward to learning the things Dennis has to teach me. I'm ready to go.

VICE CHAIR SWANSON: Thank you. Welcome aboard. Next time on the agenda is executive session and we have no need for an executive session. Go ahead Dave.

DAVE TYSON: One other thing is just bring everybody up to date on it's just I'm trying to keep up to date on everything we're doing, not to bring up sore subjects but we're going to talk about software a little bit. I did have a meeting with its called visual user experience got through people that did software, they're the people who hired a car. We brought we brought into this company at the KARMA executive group over there. And we were able to get a software to sell within six months, that software is working, Fantastic over there, the call center was thoroughly possible we'd already had invested in software before so I mean it was very economical to do, it's already paying for itself, is what I'm

getting numbers from this company to try to install here in Kankakee and I'll come back with the proposal on that. Again, it's ARPA money available it's all applicable for that so we can use that money, but it will help us track our inventory or pumps, etc.... Notice change our personnel or work orders it just helps all that for those of you on the KRMA Board we're starting to talk about the uncertainty expansion in KARMA right now. The company that came in, it's actually doing the studies and find out what we could say enough good about the software that we have. It's already operating there and going at it and going probably for six months right now that they're able to tell the age of our equipment, the efficiency of the equipment where it's at and it's useful life so that that's the same type of stuff we should have here that's what we were trying to get to. So I'm kind of trying to basically regenerate the infrastructure to move in that direction, because again, if we're proactive, then we know what to plan for other types of monies to replace pumps do everything else instead of having probably 80% of our lift station pumps out 20 to 25 years old. Well, they all know one time, guess what that's going to be a huge answer to don't have happen so anyway just to let you know, we are going to be talking about that, because it's going to be a lot less we found that we will be able to license with KARMA. So that will save us about \$70,000 to do that. And the reason we would want to do that is not to throw out too many acronyms out there but our CMOM which is our maintenance program for sewers is tied to KARMA because currently has (*inaudible*) So KARMA is the mother of basically the permitting for our sanitary sewer systems here, even though there are a few, are all individual supers that come into it. So that's why we're able to tie, or leave as part of their license to be able to get a license on them to be totally separate from them, we, you know, they wouldn't be able to know what we're doing and vice versa. But it's a way that we can use the same system. Again, I'll have more for that probably in the next week, I should definitely have a proposal on that to that, I'd like you to consider.

ADJOURNMENT

VICE CHAIR SWANSON:

Any concerns or questions from anyone? Okay, I'll entertain a motion to adjourn?

ALD PRUDE

So move

ALD JONES:

Second.

VICE CHAIR SWANSON:

Motioned by Alderman Prude and seconded by Alderman Johnson. All in favor?

ESU BOARD MEMBERS:

Aye.

VICE CHAIR SWANSON:

Opposed same sign? Okay, we are adjourned.
Thank you.